

## Degrees minutes seconds

- Each degree is split into 60 parts called minutes
- Each minute is split into 60 parts called seconds

Example:

$$30^{\circ} 15' 30'' \rightarrow 30^{\circ} + \frac{15}{60} + \frac{30}{3600} \leftarrow 60 \text{ } 60''$$

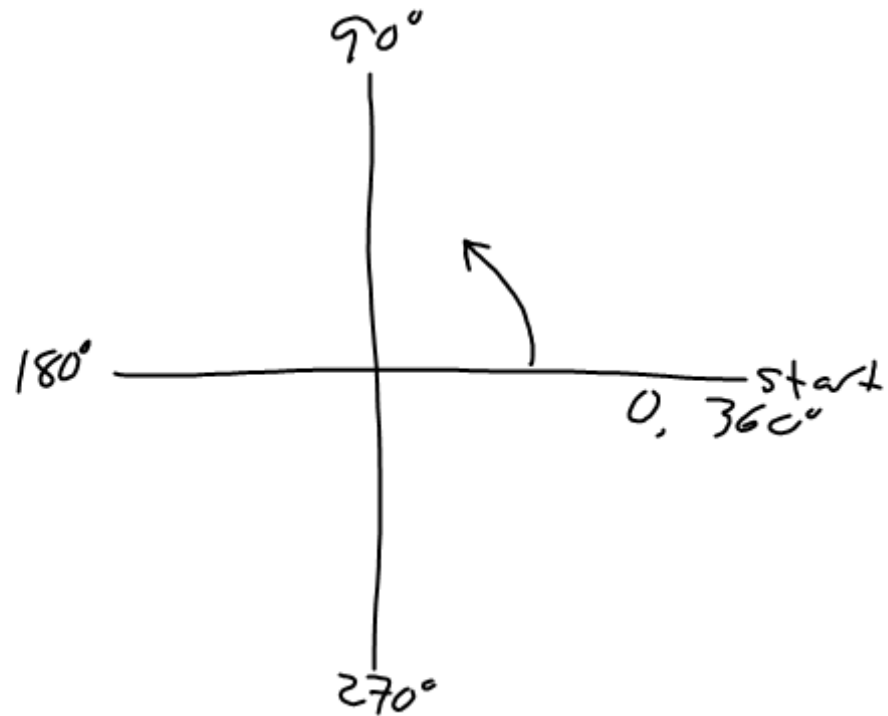
$$= 30.258\overline{33}^{\circ}$$

Example 2

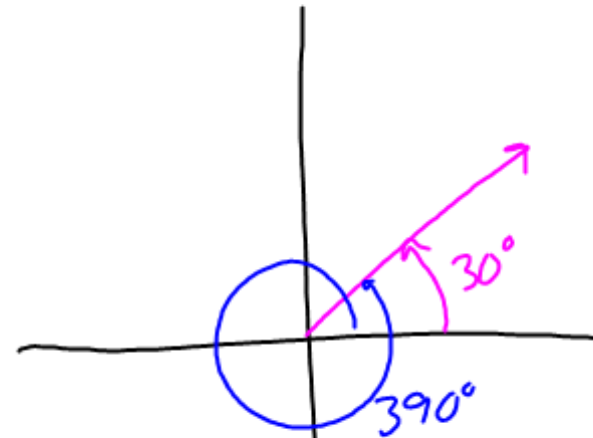
$$\begin{array}{c}
 30.258\overline{33} \\
 \swarrow \quad \searrow \\
 30^{\circ} \quad 0.258\overline{33} \cdot 60 = 15.5 \text{ min} \\
 \quad \quad \quad \swarrow \quad \searrow \\
 \quad \quad 30^{\circ} \quad 15' \quad 30'' \quad 0.5 \cdot 60 = 30
 \end{array}$$

Standard position

until ch. 7



Coterminal



$390 + 30$  are coterminal

Sect. 1.1

# 8-10, 13-15, 19, 20, 27, 30, 31,

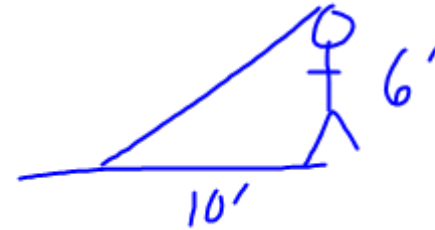
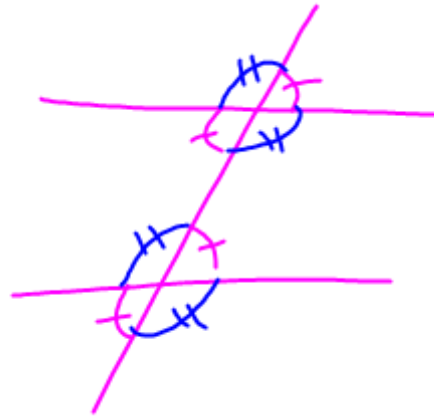
34, 37, 40, 61, 63, 67

$$\begin{array}{r} 0 \overset{9}{\cancel{16}} \overset{10}{\cancel{10}} \\ 1000 \\ - 789 \\ \hline 211 \end{array}$$

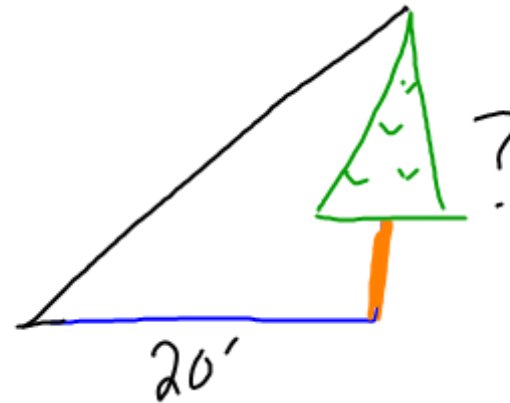
$$\begin{array}{r} 89^\circ \quad 60' \\ \cancel{90^\circ} \quad 00' \\ - 51 \quad 28' \\ \hline \end{array}$$

$$\begin{array}{r} 89^\circ \quad 59' \quad 60'' \\ \cancel{90^\circ} \quad \cancel{60'} \quad 00'' \\ - 36^\circ \quad 18' \quad 47'' \\ \hline 53^\circ \quad 41' \quad 13'' \end{array}$$

1.2



Sum  $\angle$ 's in  $\triangle = 180^\circ$



Sect. 1.2

#3, 5, 11-13, 21-23, 43, 51-56( $\frac{A}{2}$ ),

57, 58